FULL ESTIMATED COST	20.21	182.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.92	-2.92

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10/729,105

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	20	JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	21	JUN 13	FRFULL enhanced with patent drawing images
NEWS	22	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS	23	JUL 01	MEDICONF removed from STN
NEWS	24	JUL 07	STN Patent Forums to be held in July 2005
NEWS	25	JUL 13	SCISEARCH reloaded
NEWS	26	JUL 20	Powerful new interactive analysis and visualization software, STN AnaVist, now available
NEWS	27	AUG 11	Derwent World Patents Index(R) web-based training during August
NEWS	28	AUG 11	STN AnaVist workshops to be held in North America
NEWS	29	AUG 30	CA/CAplus -Increased access to 19th century research documents
NEWS	30	AUG 30	CASREACT - Enhanced with displayable reaction conditions

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),

AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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=> file reg

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STRUCTURE FILE UPDATES: 6 SEP 2005 HIGHEST RN 862534-94-9
DICTIONARY FILE UPDATES: 6 SEP 2005 HIGHEST RN 862534-94-9

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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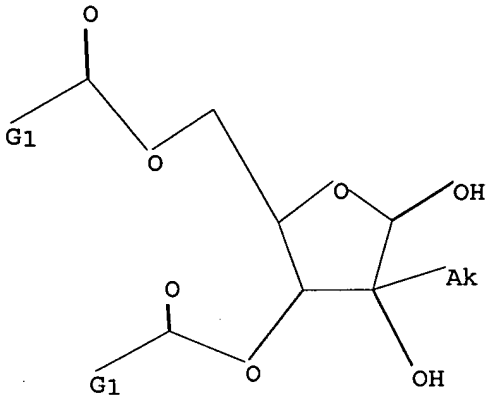

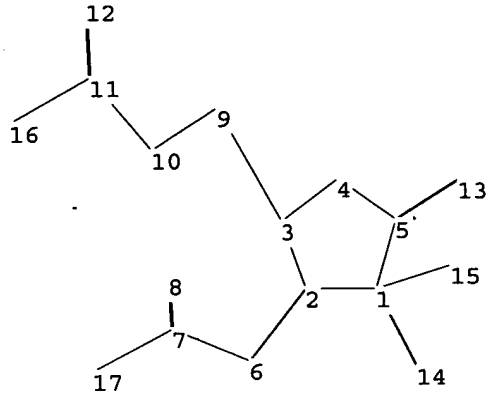

chain nodes :
6 7 8 9 10 11 12 13 14 15 16 17
ring nodes :
1 2 3 4 5
chain bonds :
1-14 1-15 2-6 3-9 5-13 6-7 7-8 7-17 9-10 10-11 11-12 11-16
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-14 1-15 2-6 5-13 6-7 7-8 7-17 9-10 10-11 11-12 11-16
exact bonds :
1-2 1-5 2-3 3-4 3-9 4-5
isolated ring systems :
containing 1 :

G1:Cy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> s l1
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SAMPLE SCREEN SEARCH COMPLETED - 562 TO ITERATE

100.0% PROCESSED 562 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9818 TO 12662
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

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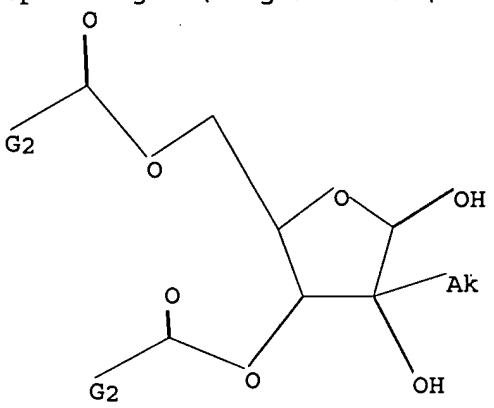

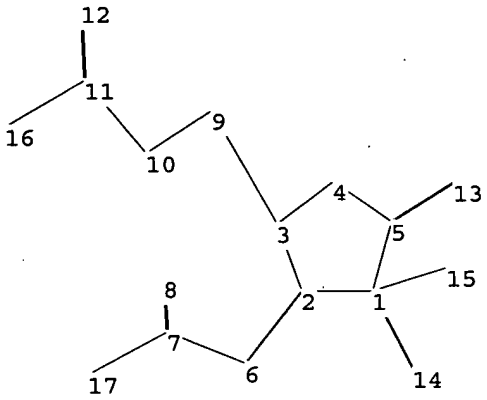

chain nodes :
6 7 8 9 10 11 12 13 14 15 16 17
ring nodes :
1 2 3 4 5
chain bonds :
1-14 1-15 2-6 3-9 5-13 6-7 7-8 7-17 9-10 10-11 11-12 11-16
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-14 1-15 2-6 5-13 6-7 7-8 7-17 9-10 10-11 11-12 11-16
exact bonds :
1-2 1-5 2-3 3-4 3-9 4-5
isolated ring systems :
containing 1 :

G1:Cy,Ak

G2:Cy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L3 STRUCTURE UPLOADED

=> s l3
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SAMPLE SCREEN SEARCH COMPLETED - 562 TO ITERATE

100.0% PROCESSED 562 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9818 TO 12662
PROJECTED ANSWERS: 2 TO 124

L4 2 SEA SSS SAM L3

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=> s l3 ful
FULL SEARCH INITIATED 10:26:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  11827 TO ITERATE

100.0% PROCESSED    11827 ITERATIONS                                 3 ANSWERS
SEARCH TIME: 00.00.01

L5            3 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   162.19     162.40

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FILE COVERS 1907 - 7 Sep 2005  VOL 143 ISS 11
FILE LAST UPDATED: 6 Sep 2005  (20050906/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l5
L6            4 L5

=> d l6 ibib hitstr abs 1-4

L6   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2004:702027  CAPLUS
DOCUMENT NUMBER:          141:207474
TITLE:                    Process for preparing branched ribonucleosides from
                          1,2-anhydroribofuranose intermediates useful in the
                          treatment of HCV infection
INVENTOR(S):              Xu, Feng; Bio, Matthew M.; Cowden, Cameron J.; Savary,
                          Kimberly A.; Williams, John M.; Yang, Chunhua; Waters,
                          Majorie See
PATENT ASSIGNEE(S):       Merck & Co. Inc., USA
SOURCE:                   PCT Int. Appl., 22 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004072090	A1	20040826	WO 2004-US3469	20040206

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-446935P P 20030212

OTHER SOURCE(S): MARPAT 141:207474

IT **741686-48-6P**

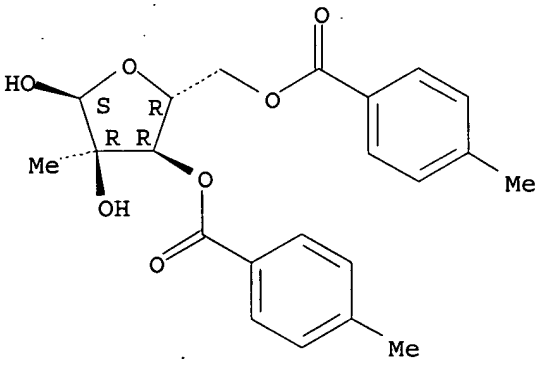
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(process for preparing branched ribonucleosides from 1,2-anhydroribofuranoses useful for treatment of HCV via ring cleavage with nucleobases)

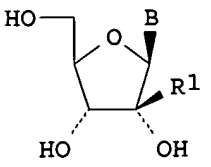
RN 741686-48-6 CAPLUS

CN α-D-Ribofuranose, 2-C-methyl-, 3,5-bis(4-methylbenzoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



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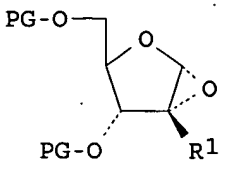
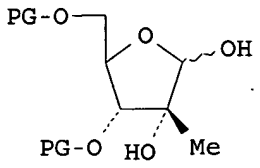


II

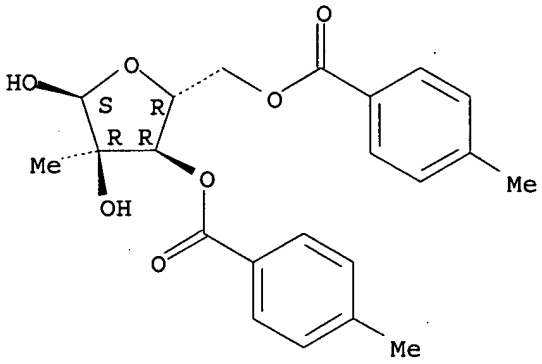


III

AB A process is provided for the preparation of branched-chain ribonucleosides I, wherein wherein R1 is C1-6 alkyl and B is a purine or pyrimidine nucleobase selected from the group consisting of cytosine, uracil, thymine, hypoxanthine, adenine, guanine, 7-deazaguanine, 7-deazaadenine, 7-deaza-2,6-diaminopurine, and 7-deazahypoxanthine; from the 1,2-anhydro derivs. II, wherein PG is a hydroxy protecting group via ring cleavage of the anhydro ring with nucleobases. Compds. I are potential inhibitors of HCV polymerase and useful in the treatment of HCV infection. Thus, 4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine was prepared from diol III via ring cleavage of II (R1 = Me, PG = 4-methoxybenzoyl) with 4-phthalimido-7H-pyrrolo[2,3-d]pyrimidine.

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:650363 CAPLUS
DOCUMENT NUMBER: 141:332398
TITLE: Practical Synthesis of a Potent Hepatitis C Virus RNA Replication Inhibitor
AUTHOR(S): Bio, Matthew M.; Xu, Feng; Waters, Marjorie; Williams, J. Michael; Savary, Kimberly A.; Cowden, Cameron J.; Yang, Chunhua; Buck, Elizabeth; Song, Zhiguo J.; Tschaen, David M.; Volante, R. P.; Reamer, Robert A.; Grabowski, Edward J. J.
CORPORATE SOURCE: Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA
SOURCE: Journal of Organic Chemistry (2004), 69(19), 6257-6266 CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:332398
IT **741686-48-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of 4-amino-7-(2'-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine via stereoselective rearrangement, epoxide ring opening, and stereoselective glycosidation)
RN 741686-48-6 CAPLUS
CN α-D-Ribofuranose, 2-C-methyl-, 3,5-bis(4-methylbenzoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A practical, efficient synthesis of 4-amino-7-(2'-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine, a hepatitis C virus RNA replication inhibitor, is described. Starting with inexpensive diacetone glucose, the 12-step synthesis features a novel stereoselective rearrangement to prepare the key crystalline furanose diol intermediate. This is followed by a highly selective glycosidation to couple the C-2 branched furanose epoxide with deazapurine.

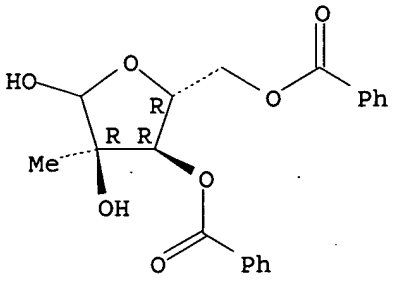
REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1970:520872 CAPLUS
DOCUMENT NUMBER: 73:120872
TITLE: Antiviral ribofuranosylpyrimidines and purines
INVENTOR(S): Walton, Edward
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Fr., 54 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1581628		19690919		
PRIORITY APPLN. INFO.:			US	19670703

IT **30361-18-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 30361-18-3 CAPLUS
CN Ribofuranose, 2-C-methyl-, 3,5-dibenzoate, D- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



GI For diagram(s), see printed CA Issue.

AB 2,3,5-Tri-O-benzoyl-2-C-methyl-D-ribofuranosyl chloride in dry PhMe was refluxed with 2,4-dimethoxypyrimidine 5 days to give 1-(2,3,5-tri-O-benzoyl-2-C-methyl-β-D-ribofuranosyl)-4-methoxy-2(1H)- pyrimidone (I, R = Bz, R1 = Me, R2 = H, R3 = MeO), [α]D -21° (CHCl3), and I (R = Bz, R1 = Me, R2 = R3 = H), m. 202°, [α]D -23°, (CDCl3). Approx. 5 other I having antiviral activity, and inhibiting RNA synthesis in ascites and KB cells were prepared

L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1969:97108 CAPLUS

DOCUMENT NUMBER: 70:97108

TITLE: Nucleic acid components and their analogs. CXX. 2-C-Methyl-D-ribose and its derivatives

AUTHOR(S): Novak, Jiri; Sorm, Frantisek

CORPORATE SOURCE: Ceskoslov. Akad. Ved, Prague, Czech.

SOURCE: Collection of Czechoslovak Chemical Communications (1969), 34(3), 857-66
CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal

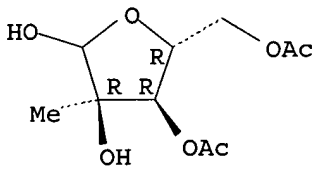
LANGUAGE: English

IT **23669-94-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23669-94-5 CAPLUS

CN Ribofuranose, 2-C-methyl-, 3,5-diacetate, D- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A mixture of 5 ml. Ac2O and 15 ml. C5H5N treated with ice-cooling with 1.4 g. 2-C-methyl-D-ribonolactone (I) in 15 ml. C5H5N, the whole kept at room temperature overnight, poured onto ice, and extracted with CHCl3 gave 1.75 g. I 2,3,5-triacetate, b0.01 120° (bath temperature), [α]2D0 146.5° (c 0.51, EtOH). A solution of 1.6 g. I in 5 ml. C5H5N added to a mixture prepared at 0° from 4.3 g. BzCl and 15 ml. C5H5N, the whole kept at room temperature overnight, heated to 80° 1 hr., diluted with 1 ml. MeOH, evaporated, and extracted with CHCl3 gave 3.8 g. I 2,3,5-tribenzoate, m. 139-40° (MeOH) (sublimation), [α]2D0 122.5° (c 0.507, CHCl3). A suspension of 0.8 g. I, 10 ml. anhydrous Me2CO, 1 ml. HC(OEt)3,

and 0.05 ml. 20% ethanolic HCl shaken at room temperature 8 hrs. and neutralized with Ag2CO3 gave 0.86 g. I 2,3-O-isopropylidene derivative, b0.05 120° (bath temperature), m. 57-8° (sublimation), [α]2D0 -44.0° (c 0.54, EtOH). A stirred mixture of 15 g. I, 500 ml. 0.001N H2SO4, and 1500 ml. Dowex 50 (H+) ion-exchange resin treated in one lot with 1000 g. 2.5% Na amalgam (the temperature rose spontaneously to 40°), the whole kept 1 hr., filtered, and the filtrate passed through a column of Dowex 1 (HCO3-) ion-exchange resin gave 11 g. 2-C-methyl-D-ribose (II), m. 93-5° (iso-PrOH), [α]2D0 -23.6° (after 15 min.) (c 0.622, H2O); II N-benzyl-N-phenylhydrazone m. 169-72° (MeOH), [α]2D0 6.3° (c 0.207, EtOH). II was prepared also by reduction of I with aqueous NaBH4. A mixture of 2 g. II, 100 ml. MeOH, and 5 ml. 20% methanolic HCl refluxed 5 hrs., and neutralized with Dowex 1 (OH-) ion-exchange resin gave 1.2 g. Me 2-C-methyl-β-D-ribofuranoside (III), m. 109° (MeOH), [α]2D0 -82.1° (c 0.504, EtOH). Aqueous III refluxed with Dowex 50 (H+) ion-exchange resin gave II. A suspension of 0.9 g. III, 10 ml. Me2CO, 1 ml. HC(OEt)3, and 3 drops 20% methanolic HCl shaken at room temperature overnight and neutralized with Ag2CO3 gave 0.9 g. III 2,3-O-iso-propylidene derivative, b0.05 60° (bath temperature), [α]2D0 -84.0° (c 0.512, EtOH). A solution of 0.5 g. III in 5 ml. C5H5N added dropwise at 0° to a mixture of 10 ml. C5H5N and 3 ml. Ac2O, the whole poured onto ice, and extracted with CHCl3 gave 0.2 g. III 3,5-diacetate, b0.01 120-5° (bath temperature), [α]2D0 -43.6° (c 0.559, EtOH). The preceding reaction mixture refluxed 5 hrs. gave 0.7 g. III 2,3,5-triacetate (IV), m. 60° (sublimation), [α]2D0 -9.8° (c 0.48, EtOH). A solution of III in C5H5N treated at 0° with BzCl and the whole refluxed 5 hrs. gave 65% III 3,5-dibenzoate, b0.01 180-5° (bath temperature), [α]2D0 - 19.9° (c 0.619, EtOH). The attempted preparation of III tribenzoate failed even under forced conditions. A solution of IV in MePh saturated at 0° with dry HBr, the mixture kept 8 hrs. at 0° and evaporated, the residue dissolved in dioxane, and the solution shaken with Ag2CO3 gave syrupy 3,5-di-O-acetyl-2-C-methyl-D-ribose and a syrupy mixture of anomeric 2,3,5-tri-O-acetyl-2-C-methyl-D-ribofuranoses. A mixture of 14 ml. Ac2O and 1.6 g. 70% aqueous HClO4 treated at 0° with 1.5 g. IV in 5 ml. AcOH, the whole heated at 60° 2 hrs., treated at 20° with 1 g. NaOAc in 15 ml. AcOH, poured onto ice, and extracted with CHCl3 gave 0.4 g. 1,2,3,5-tetra-O-acetyl-2-C-methyl-β-D-ribofuranose (V), m. 156° (sublimation), [α]2D0 -18.8° (c 0.499, EtOH). Similarly, 0.9 g. III gave 0.31 g. V. A suspension of 1.6 g. II in 5 ml. PhCH2OH saturated with dry HCl gave 0.4 g. benzyl 2-C-methyl-β-D-furanoside (VI), m. 99-100° (MeOH), [α]2D0 -187° (c 0.454, EtOH), and 0.15 g. of the α-D anomer, m. 125° (C6H6), [α]2D0 -108.2° (c 0.338, EtOH). A mixture of 0.5 g. VI, 5 ml. C5H5N, and 2 ml. Ac2O refluxed 6 hrs. gave 0.59 g. benzyl 2,3,5-tri-O-acetyl-2-C-methyl-β-D-ribofuranoside, m. 112° (cyclohexane), [α]2D0 -75.3° (c 0.503, EtOH), the hydrogenolysis of which in EtOH over 10% Pd on C followed by acetylation with Ac2O in C5H5N yielded 70% V. Acetylation of 0.16 g. II in AcOH with Ac2O, and 70% aqueous HClO4 gave 0.04 g. V. A mixture of II, Ac2O, and C5H5N refluxed 5 hrs. gave 0.1 g. V. Treatment of II with PhCH2OCOCl gave 31% 2-C-methyl-D-ribofuranose 2,3-carbonate (VII) 1,5-di-O-benzyloxycarbonyl derivative, m. 88° (Et2O), [α]2D0 -50.3° (c 0.280, EtOH), the hydrogenolysis of which in MeOH over prereduced PdCl2 yielded 87% VII, m. 113° (EtOAc).

=> log y
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION